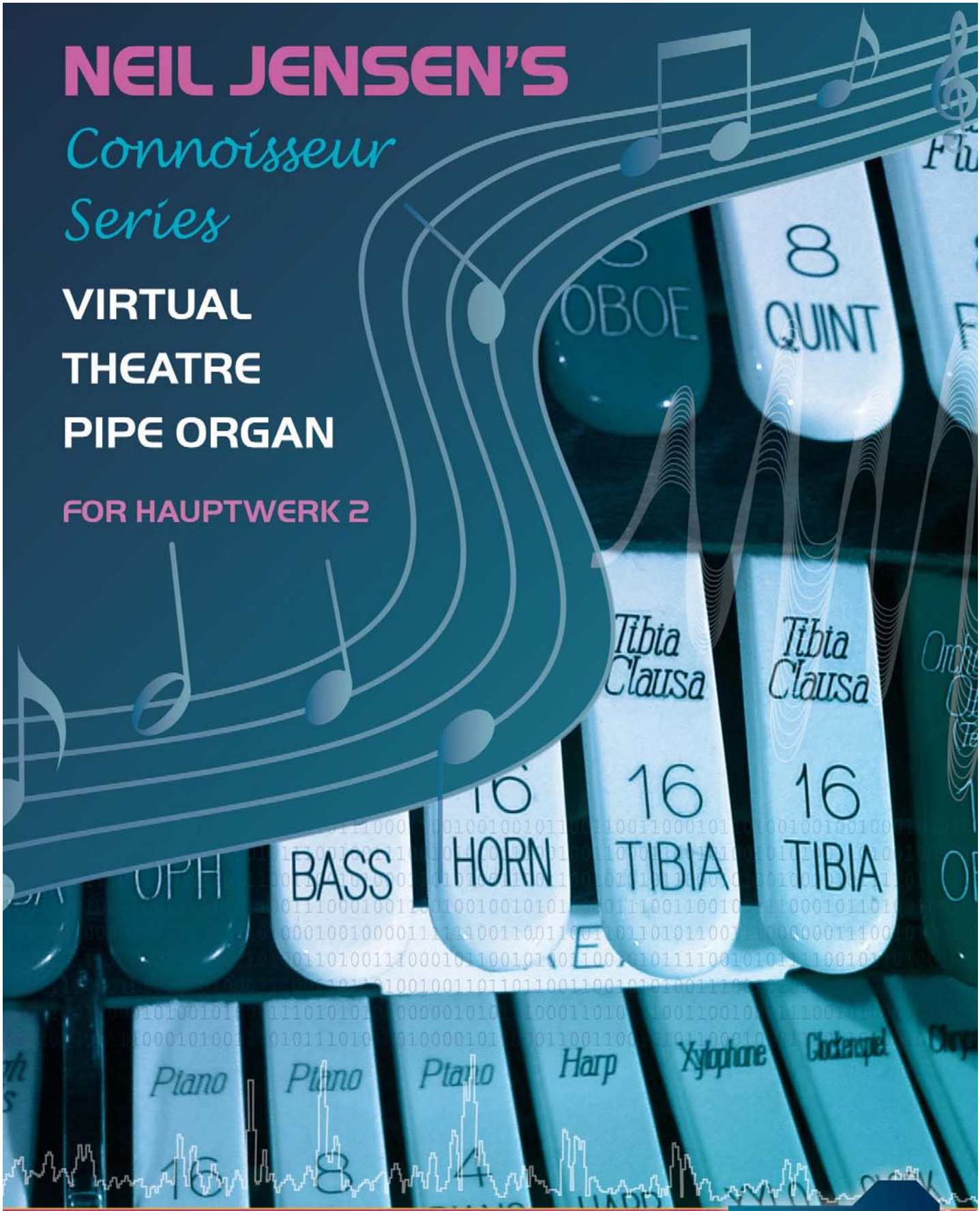
NEIL JENSEN'S

Connoisseur Series

VIRTUAL THEATRE PIPE ORGAN

FOR HAUPTWERK 2



3/27- Expansion Pack

KEYMEDIA PRODUCTIONS PTY LTD

What is the Connoisseur Virtual Theatre Pipe Organ Series?

The Connoisseur Virtual Theatre Pipe Organ Series is an expandable series of high resolution sample sets engineered and developed expressly for the exciting Hauptwerk 2 software for the PC & MAC platforms.

Created by Crumhorn Labs U.K., Hauptwerk 2 is an organ specific sampler software application with programming parameters that synergistically combine to create and deliver in a virtual domain, the musical illusion, performance and idiosyncrasies that form part of the real theatre pipe organ experience.

Hauptwerk creates an open and complete solution combining the platform for organ design (such as **Connoisseur Virtual Theatre Pipe Organ Series**) and sound engine in one elegant cost effective software solution.

Each package in the series represents a Virtual Theatre Pipe Organ complete within and of itself. However, it does not stop there……each instrument is expandable by subsequent expansion packages.

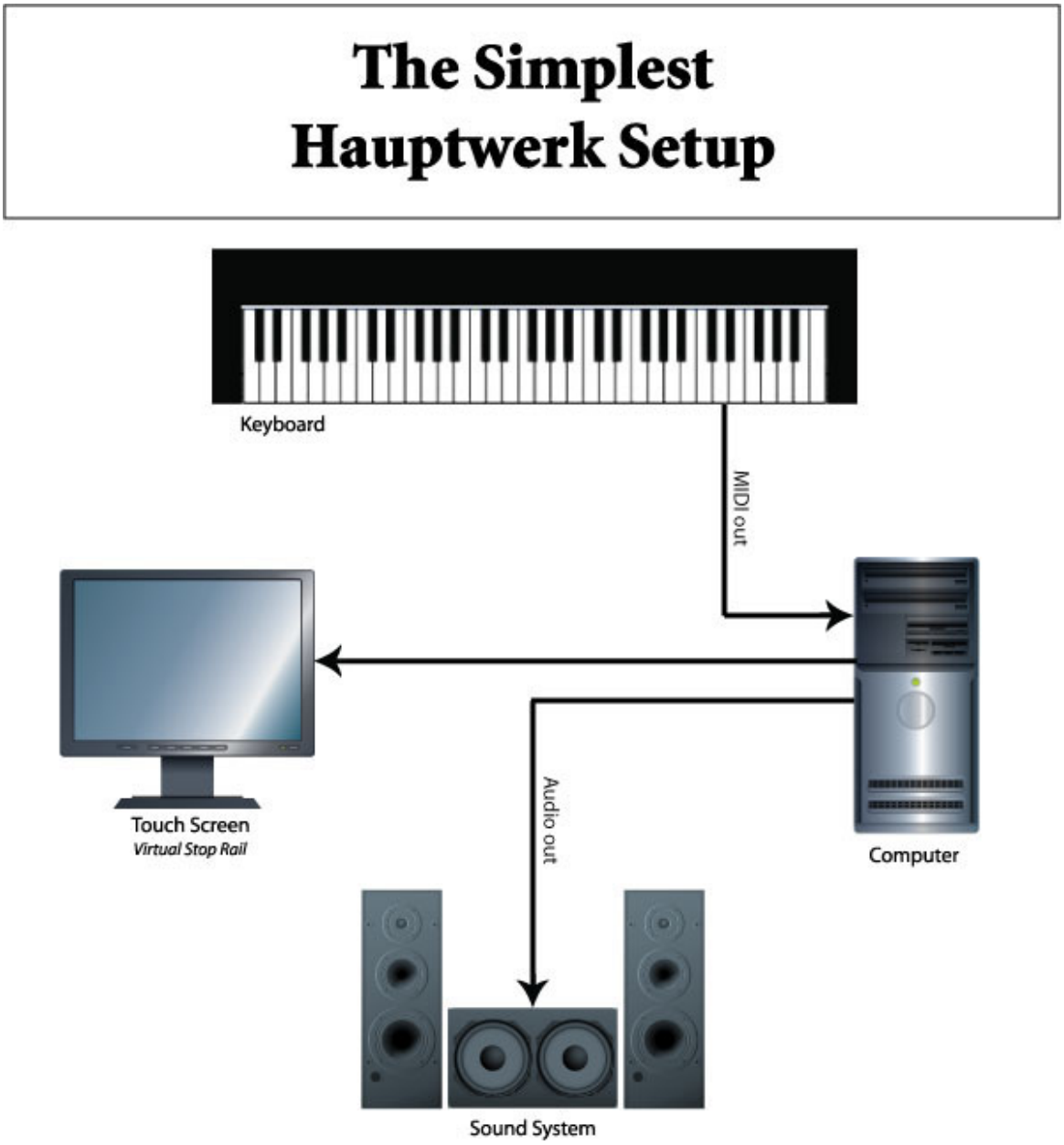
Our series commence at 3 manuals and 11 ranks and is expanded in three successive packages of 19, 27 and 36 ranks plus ancillary traps, percussions, effects and features. The customer's hardware, audio, personal computer, and budgetary factors can influence the size of the Virtual Theatre Organ's size and specification. Hence we felt it prudent to design an expandable range of Virtual Theatre Organ products that can be seamlessly and easily expanded in conjunction with the updating and 'upsizing' of these factors. Please refer to our PC and Mac system requirement tables in the relevant product links.

Accompanying each Virtual Organ in the series, in addition to the library of digital samples, is a specifically designed and engineered Virtual Organ Definition File and a General User Interface of 'The console.' This Virtual Console includes a unique and state-of-the-art specification of stops (which caters for both traditional and modern playing paradigms), manuals, piston combination action; and swell pedals – all visibly displayed on the customer's personal computer monitor. Touch screens are supported and provide an ideal cost effective alternative to hardware stop boxes and stop rails, thereby bringing a Virtual Theatre Pipe Organ into homes with even the most modest of instruments with MIDI capability.

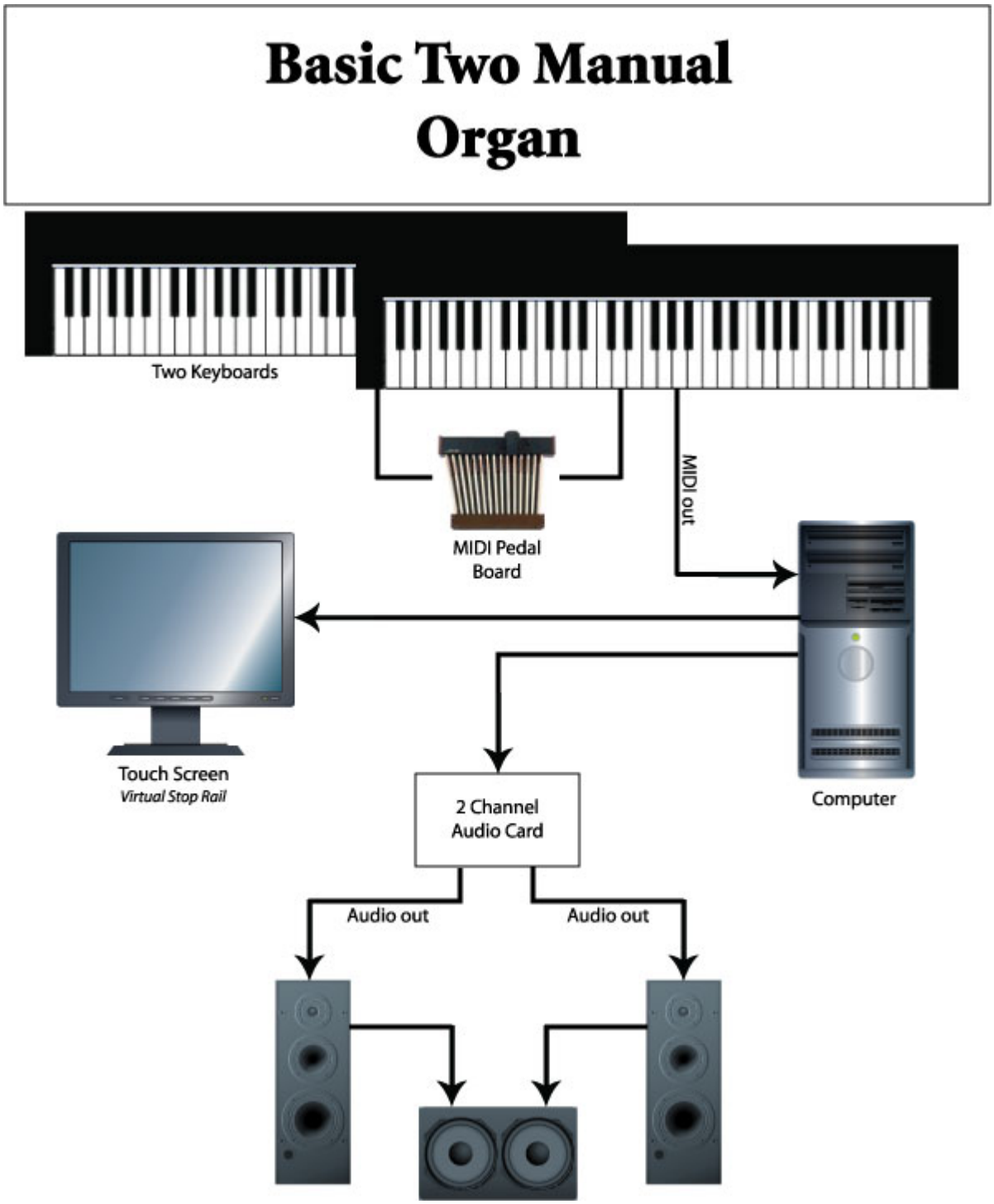
Programmed into the Organ's Definition Files are the parameters which comprise Winding systems, tremulant model, swell enclosure architecture, swell (expression) curves, the relay (connecting circuitry) and many more. These parameters are appropriately programmed and represented in a virtual form, directly influencing the randomness and finer nuances of the organ performance.

What applications does the Connoisseur Virtual Theatre Pipe Organ Series have?

Virtual Theatre Pipe Organs offer many versatile solutions from retro-fit of theatre organ scale consoles through to digital augmentation of existing theatre pipe organ instruments, electronic organs and D.I.Y Digital Theatre Organ Construction projects…….whatever your imagination may conjure up!

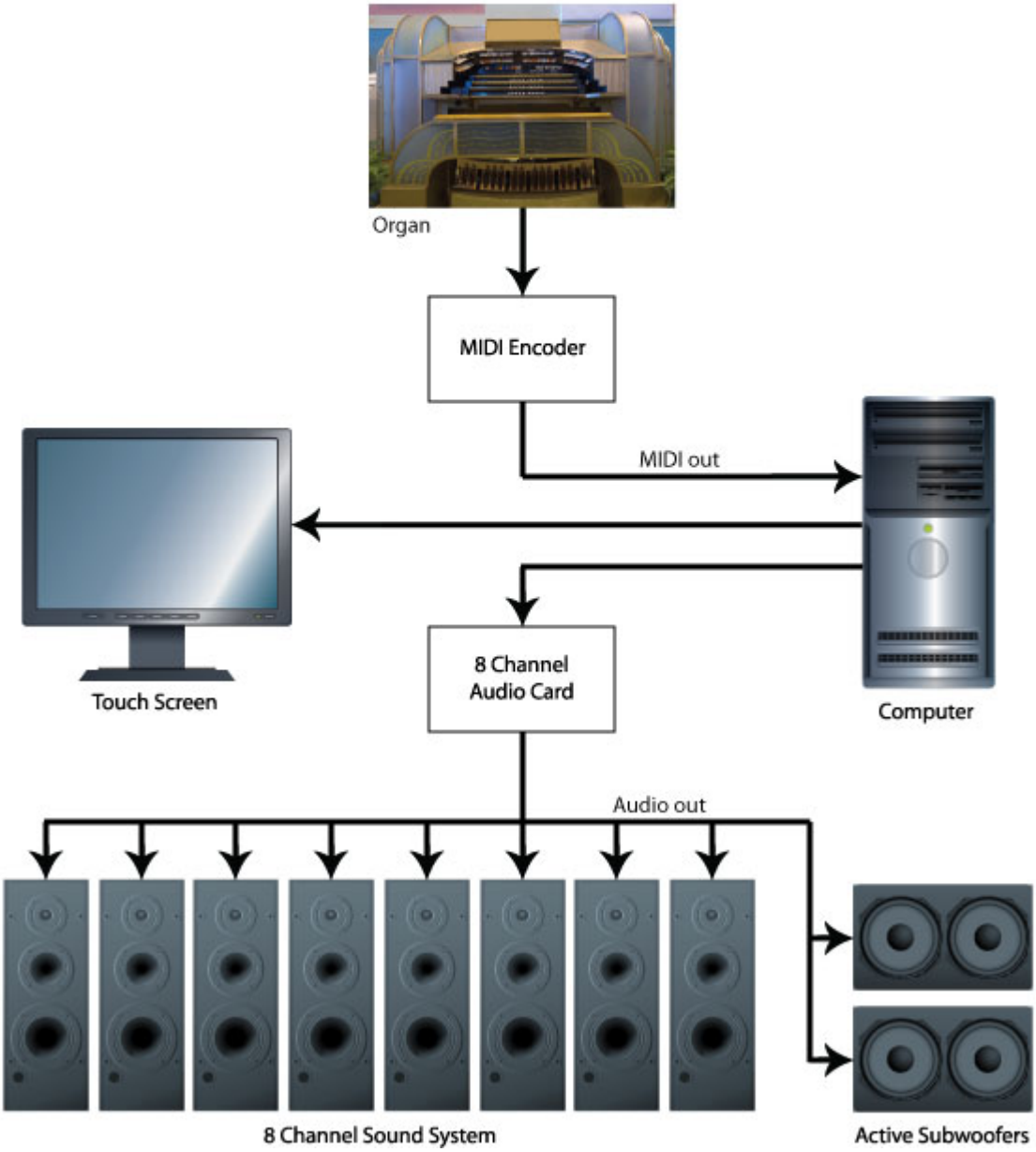


- *Simple Single MIDI Keyboard Solution using Touch Screen as Virtual Stop Rails.*



- *Two Keyboard & Pedal MIDI Solution using Touch Screen as Virtual Stop Rails.*

Multi-Channel Theatre Organ Console MIDI Fit Out



- *Retro Fit Out of WurliTzer Console with MIDI Encoder using Touch Screen as monitor and virtual ancillary stop rail to hardware stop rail and mapped to a multi channel audio system.*

While Hauptwerk and our Sample Sets offer outstanding instruments from a virtual representation and reproduction standpoint, a host or controller and audio system are required. Keymedia can advise the customer on the optimum choice of these elements. By special arrangement, we can even sample your favorite ranks and incorporate them in any one of the sample sets on offer.

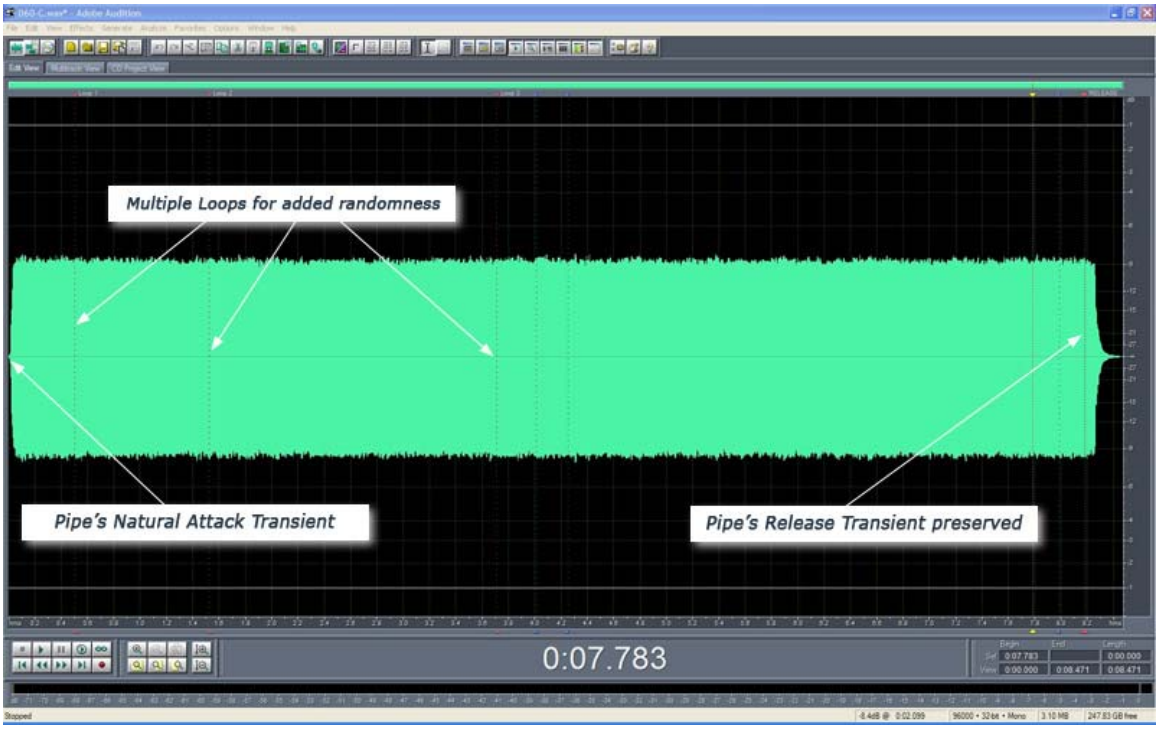
The Sampling, Engineering and Design of our Virtual Theatre Pipe Organs.

The complexity, integrity and sophistication of the Hauptwerk platform has unlike any other digitally replicated Theatre Pipe Organ or Soft Sampler application allowed for virtual modeling, sample reproduction and performance to an unparalleled degree of detail, precision and realism .

Sample libraries of considerable size on the Hauptwerk platform can now be accommodated due to current modern and advancement in personal computer design and RAM capability. All samples within our instruments are prepared and cached to RAM.

What makes a fine organ is the quality of the ranks and instruments which it comprises. We have sought the finest ranks from various manufacturers and our sampling techniques using high end equipment at 24bit, 96 KHz, ensure our customers have the flexibility to possess a Virtual Theatre Pipe Organ in any acoustical settings from studio to theatre. Naturally occurring nuances of the start, sustain and release transients of each sampled pipe, percussion and novelty effects have been faithfully captured.

In our commitment to an utmost realistic outcome, a sample and tremulant waveform set is provided for every note for every rank. Sample stretching has been avoided. The length of each sample is 3 – 8 seconds in length thus capturing the natural dithering behavior of each and every pipe.

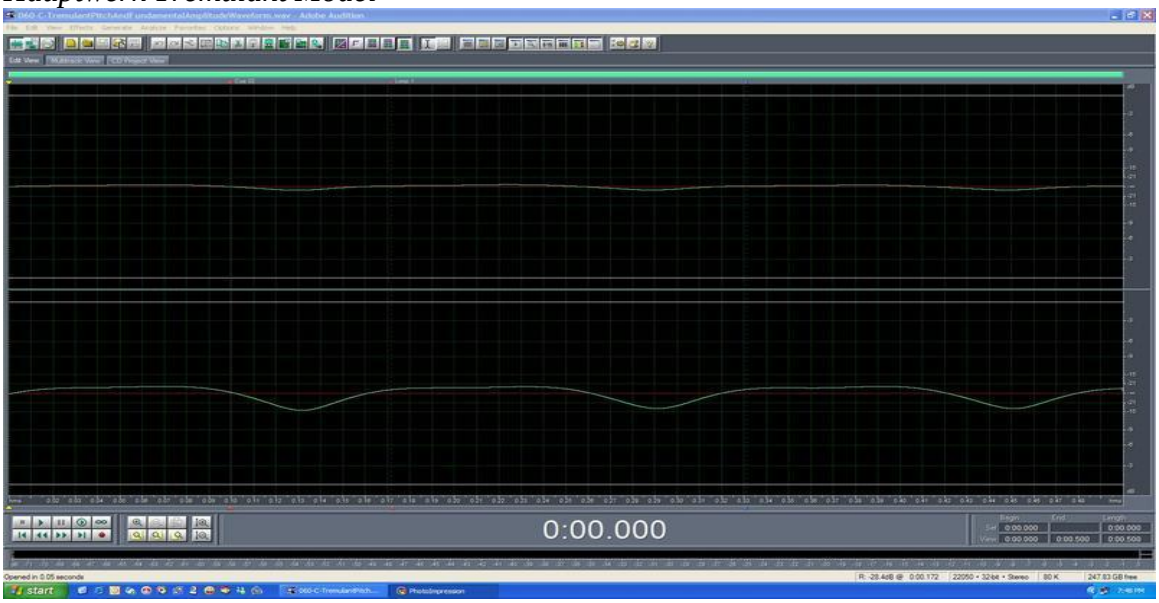


- *A typical multi second sample depicting programmed multiple loops and the pipe's release transient.*

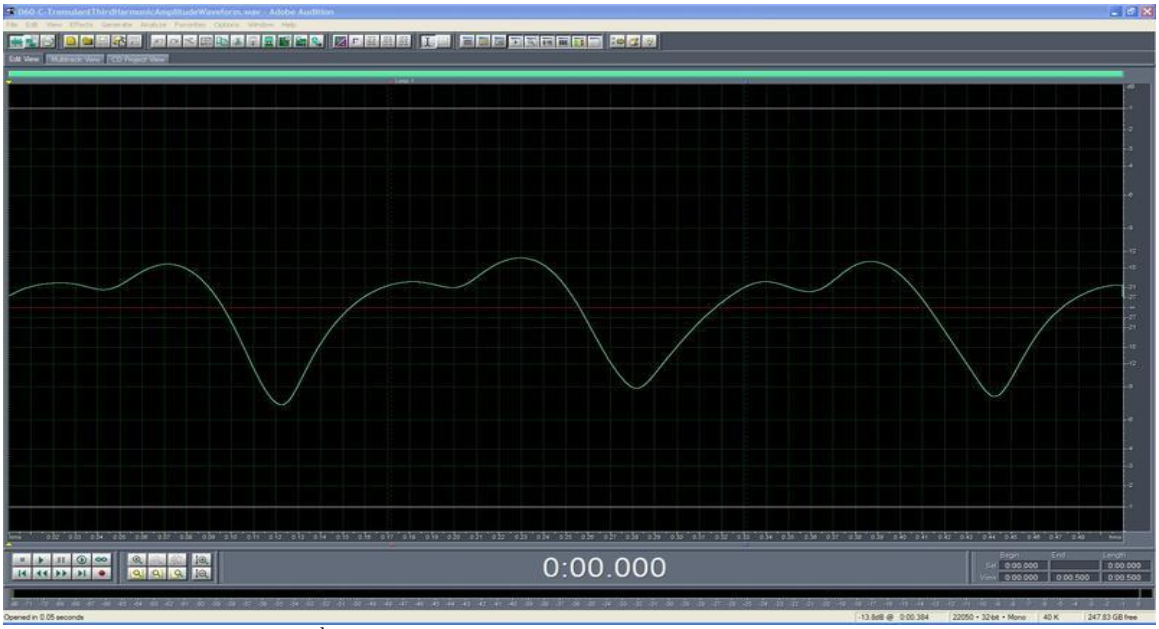
Superb Tremulant Modeling

Every pipe in our virtual instruments has been sampled off and on tremulant. As theatre Pipe Organ Tremulants are not linear nor is one waveform shape constant over the entire compass of a rank, a set of tremulant waveforms (3) for each note is software generated by comparing the amplitude and frequency (1st & 3rd and greater harmonic) differences between the tremmed and non-tremmed samples. This yields an exact and in phase replication of the original tremulant musical outcome and dynamic. Complementing the 'total illusion' optional tremulant mechanical noise can be selected by the customer.

Screenshots – Non Linearity of Theatre Pipe Organ Tremulant replicated in the Hauptwerk Tremulant Model



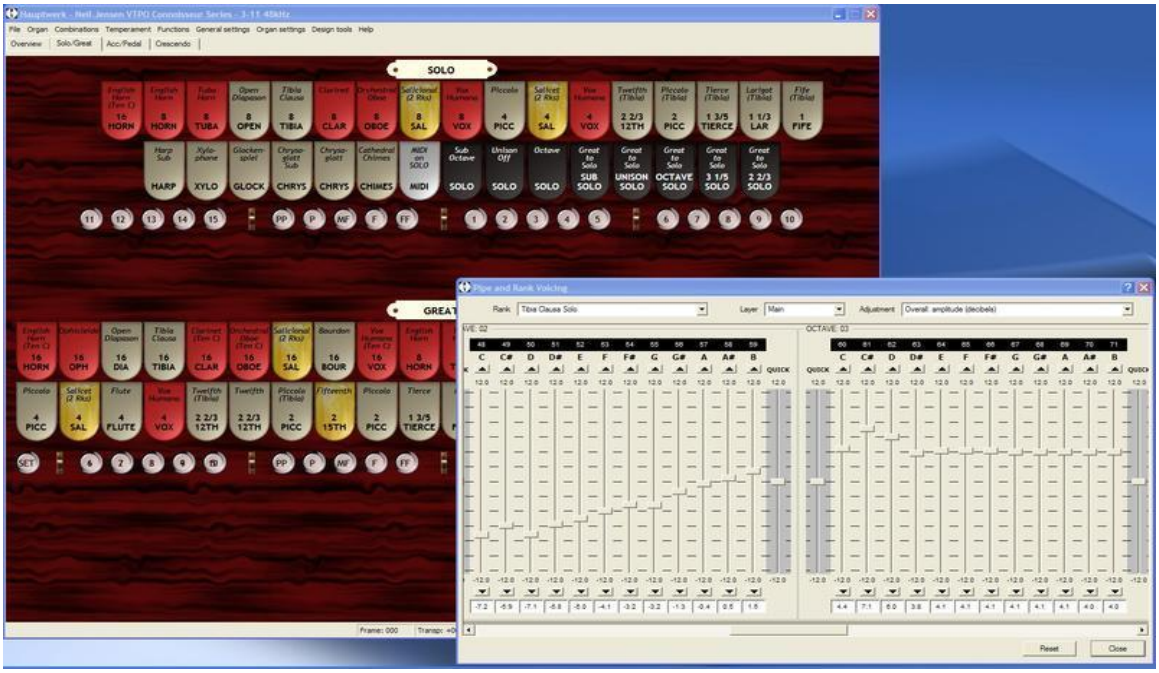
- *Tremulant Frequency Waveform & 1st Harmonic Amplitude Waveform.*



- *Tremulant 3rd Harmonic & Greater Amplitude Waveform.*

User Regulation

The ranks supplied in each sample set within the **Connoisseur Virtual Theatre Pipe Organ Series** have been painstakingly regulated and voiced by our artistic directors over hundreds of hours. But let that not stop you! Note for note regulation and adjustment of various tremulant parameters can be custom tailored using the on board Voicing Palette available within Hauptwerk 2. Additionally, within the Voicing Palette, note for note voicing, regulation, scaling and the establishment of power curves can be user configured.



- *Comprehensive Note for Note Voicing & Regulation Palette.*

- *Note for Note Tremulant Adjustment Parameters.*

Comments relate to the Concert Edition of HW (multi-channel audio, voicing, wind supply model not available in the Studio Edition, and polyphony restricted to 1024 simultaneous pipes in SE).

CHAMBER ANALYSIS

MAIN CHAMBER

Tuba Horn (WurliTzer)
**Open Diapason (Christie)*
TIBIA CLAUSA 10" Scale (WurliTzer)
Clarinet (WurliTzer)
Musette (WurliTzer)
VIOL D'ORCHESTRE (WurliTzer)
VIOL CELESTE (WurliTzer)
Salicional (Christie)
Celeste (Christie)
Oboe Horn (WurliTzer)
Quintadena (WurliTzer)
Concert Flute (WurliTzer)
Concert Flute Celeste (WurliTzer)
VOX HUMANA (WurliTzer)

** Notes 24 - 41 Wood Diaphone*
*Blue *denotes prerequisite packages*

PERCUSSION CHAMBER

Wood Harp/Marimba (WurliTzer)
Xylophone/Re-it Xylophone (WurliTzer)
Glockenspiel/Orchestral Bells (WurliTzer)
Chrysoglott (WurliTzer)
Cathedral Chimes (Christie)
VIBRAPHONE (Musser)

Bass Drum
Bass Drum Roll
Cymbal Crash
Ride Cymbal
Ride Cymbal Back Beat
Jazz Cymbal
Brush Cymbal
Snare Drum
Rim Shot
Open Hi Hats
Closed Hi Hats
Pedal Hi Hats
Choke Cymbal
Tom Tom
Tambourine
Castanets
Maraccas
Wood Block
Cow Bell
Sand Block
Temple Block
Triangle
Bell Tree
Choke (Tight)
Piatti
Symphonic Cymbal Roll
Drum Roll / Cymbal Crash
Bird Whistle
Train Whistle
Novelty Whistle
Chinese Gong

SOLO CHAMBER

English Horn (Stephens)
Brass Trumpet (WurliTzer)
Horn Diapason (Palmer)
HORN DIAPASON CELESTE (Palmer)
Tibia Clausa (WurliTzer)
KRUMET (WurliTzer)
Kinura (WurliTzer)
Orchestral Oboe (WurliTzer)
Brass Saxophone (WurliTzer)
Solo String (WurliTzer)
Solo String Celeste (WurliTzer)
LIEBLICH FLUTE (Morton)
Vox Humana (WurliTzer)
Cymbal Roll Mezzo

UNENCLOSED

Grand Piano (Kawai 7'4")
STRING BASS

STOP SPECIFICATION

3 Manuals

27 Ranks

PEDAL

32 Contra Violone
32 Contra Bourdon
16 Ophicleide
16 Diaphone (Wood)
16 Diaphonic Horn
16 Tibia Clausa
16 Violone (2 Rks)
16 Oboe Horn
16 Bourdon
8 English Horn
8 Tuba Horn
8 Open Diapason
8 Horn Diapason
8 Tibia Clausa
8 Clarinet
8 Cello (2 Rks)
8 Oboe Horn
8 Concert Flute
16 Piano
8 Piano
8 String Bass
Bass Drum
Bass Drum Roll
Crash Cymbal
Cymbal Roll
Ride Cymbal
Jazz Cymbal
Finger Cymbal
Brush Cymbal
Closed Hi Hats
Pedal Hi Hats
Triangle
Temple Block
MIDI on PEDAL
Accomp to Pedal
Great to Pedal

ACCOMPANIMENT

8 English Horn
8 Brass Trumpet
8 Tuba Horn
8 Diaphonic Diapason
8 Horn Diapason
8 Tibia Clausa (M)
8 Clarinet
8 Saxophone
8 Solo String (2 Rks)
8 Viol d' Orchestre (2 Rks)
8 Salicional (2 Rks)
8 Oboe Horn
8 Quintadena
8 Lieblich Flute
8 Concert Flute
8 Vox Humana (S)
8 Vox Humana (M)
4 Octave
4 Octave Horn
4 Piccolo (Main)
4 Solo String (2 Rks)
4 Viol (2 Rks)
4 Salicet (2 Rks)
4 Quintadena
4 Lieblich Flute
4 Concert Flute
4 Vox Humana (S)
4 Vox Humana (M)
2 2/3 Lieblich Twelfth
2 2/3 Twelfth
2 Lieblich Piccolo
2 Piccolo
8 Piano
Harp Sub
Harp
Chrysoglott
Snare Drum
Rim Shot
Ride Cymbal
Ride Cymbal (Back Beat)
Jazz Cymbal
Brush Cymbal
Open Hi Hats
Closed Hi Hats
Pedal Hi Hats
Choke Cymbal
Tom Tom
Tambourine
Castanets
Maraccas
Wood Block
Cow Bell
Sand Block
MIDI on ACCOMP
Octave
Solo to Accomp

ACCOMP 2ND TOUCH

8 English Horn
8 Brass Trumpet
8 Tuba Horn
8 Open Diapason
8 Tibia Clausa (S)
8 Tibia Clausa (M)
8 Clarinet
4 Piccolo (S)
4 Piccolo (M)
8 Piano
Sub Harp
Chrysoglott Sub
Glockenspiel Octave
Triangle
MIDI on ACCOMP 2nd Touch
Great Octave Accomp
Solo to Accomp
Accomp Traps

GREAT

16 English Horn (Ten C)
16 Brass Trumpet (Ten C)
16 Ophicleide
16 Open Diapason
16 Diaphonic Horn
16 Tibia Clausa (S)
16 Tibia Clausa (Ten C)(M)
16 Clarinet (Ten C)
16 Krumet (Ten C)
16 Orchestral Oboe (Ten C)
16 Musette (Ten C)
16 Saxophone (Ten C)
16 Solo String (2 Rks)
16 String Ensemble (4 Rks)
16 Oboe Horn
16 Bourdon
16 Vox Humana (Ten C)(S)
16 Vox Humana (Ten C)(M)
8 English Horn
8 Brass Trumpet
8 Tuba Horn
8 Open Diapason
8 Horn Diapason
8 Tibia Clausa (S)
8 Tibia Clausa (M)
8 Clarinet
8 Krumet
8 Kinura
8 Orchestral Oboe
8 Musette
8 Saxophone
8 Solo String (2 Rks)
8 Viol d' Orchestre (2 Rks)
8 Salicional (2 Rks)
8 Oboe Horn
8 Quintadena
8 Lieblich Flute
8 Concert Flute
8 Vox Humana (S)
8 Vox Humana (M)
5 1/3 Fifth (Tibia) (M)
4 Octave
4 Piccolo (S)
4 Piccolo (M)
4 Solo String (2 Rks)
4 Viol d' Orchestre (2 Rks)
4 Salicet (2 Rks)
4 Lieblich Flute
4 Concert Flute
4 Vox Humana (S)
3 1/5 Tenth (Tibia)(M)
2 2/3 Twelfth (Tibia)(S)
2 2/3 Twelfth (Tibia)(M)
2 2/3 Lieblich Twelfth
2 Piccolo (Tibia)(S)
2 Piccolo (Tibia)(M)
2 Fifteenth
2 Lieblich Piccolo
1 3/5 Lieblich Tierce
1 Lieblich Fife
16 Piano
8 Piano
Harp Sub
Xylophone
Glockenspiel
Chrysoglott
MIDI on GREAT
Sub Octave
Unison Off
Octave
Solo Sub Great
Solo to Great
Solo on Great Melody
Solo on Great Pizzicato
Solo on Great Delay

SOLO

16 English Horn (Ten C)(NC)
8 English Horn
8 Brass Trumpet
8 Tuba Horn
8 Diaphonic Diapason
8 Open Diapason
8 Tibia Clausa (S)
8 Tibia Clausa (M)
8 Clarinet
8 Krumet
8 Kinura
8 Orchestral Oboe
8 Musette
8 Saxophone
8 Solo String (2 Rks)
8 String Ensemble (4 Rks)
8 Oboe Horn
8 Quintadena
8 Lieblich Flute
8 Vox Humana (S)
8 Vox Humana (M)
4 Piccolo (S)
4 Piccolo (M)
4 Solo String (2 Rks)
4 String Ensemble (4 Rks)
4 Vox Humana (S)
4 Vox Humana (M)
4 Lieblich Flute
2 2/3 Twelfth (Tibia)(S)
2 2/3 Twelfth (Tibia)(M)
2 2/3 Lieblich Twelfth
2 Piccolo (Tibia)(S)
2 Piccolo (Tibia)(M)
1 3/5 Tierce (Tibia)(S)
1 1/3 Larigot (Tibia)(S)
1 Fife (Tibia)(S)
8 Piano
Harp Sub
Xylophone
Glockenspiel
Chrysoglott Sub
Chrysoglott
Vibraphone
Cathedral Chimes
MIDI on SOLO
Sub Octave
Unison Off
Octave
Great on Solo
Great Octave Solo
Solo Sub 5th
Solo 3rd
Solo 5th
Solo 7th
Solo Major 7th

TREMULANTS

Solo
Strings
Clarinet
Tibia Sax Vox
Brass Trumpet
Tuba Horn
Vibraphone

GENERAL

Horn Diapason Celeste ON
Concert Flute Celeste ON
String Celestes OFF
Dampers (Vibraphone)
Percussion Re-it
Percussion Un-expressed
Swell Master

SWELL TOGGLE

Solo Sustain
Solo Sostenuto
Great Sustain
Great Sostenuto
Vibraphone Rotor
Piano Sustain

EFFECTS

Bell Tree
Choke
Piatti
Symphonic Cymbal Roll
Drum Roll / Cymbal Crash
Bird Whistle
Train Whistle
Novelty Whistle
Chinese Gong
Tremulant & Chamber Noise

COMBINATION ACTION

15 General Pistons
15 Solo Division Pistons
15 Great Division Pistons
15 Accomp. Division Pistons
5 Pedal Division Piston
SET
CANCEL

MISCELLANEOUS

Percussion Re-iteration Rate
Solo on Great Delay Rate
42 stage Crescendo

DISPLAY

Solo MIDI Keyboard Activity
Great MIDI Keyboard Activity
Accomp Keyboard Activity
Accomp 2nd T Keyboard Activity
Pedal Board Activity
Solo Chamber Swell Indicator
Main Chamber Swell Indicator
Percussion Chamber Swell Indicator
Crescendo Stage Indicator
Sustain Toggle Indicator

(Ten C) denotes Tenor C
(NC) denotes non couple
(S) denotes Solo Chamber
(M) denotes Main Chamber
**Specification subject to change.*